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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/908,963	C	07/19/2001	Itshak Bergel	INTL-0603-US (P11744)	1926
21906	7590	05/05/2006		EXAMINER	
TROP PRU	NER & F	HU, PC	SMITH, SHEILA B		
8554 KATY	FREEWA	·Υ			
SUITE 100			ART UNIT	PAPER NUMBER	
HOUSTON,	TX 770	24	2617		
			DATE MAILED: 05/05/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		09/908,963	BERGEL, ITSHAK					
	Office Action Summary	Examiner	Art Unit					
		Sheila B. Smith	2617					
Period fo	The MAILING DATE of this communication app r Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed on 27 Fo	ehruary 2006						
	• • • • • • • • • • • • • • • • • • • •	action is non-final.						
′=	, ·		secution as to the merits is					
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dienociti	on of Claims	in pullo quaylo, 1000 o.b. 11, 40						
· _								
-	Claim(s) <u>1-30</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
· —	5) Claim(s) <u>1-14 and 27-30</u> is/are allowed.							
=	Claim(s) 15-26 is/are rejected.							
-	• • • • • • • • • • • • • • • • • • • •							
8)□	Claim(s) are subject to restriction and/o	r election requirement.						
Applicati	on Papers							
9) The specification is objected to by the Examiner.								
10)[The drawing(s) filed on is/are: a)☐ acc	epted or b) \square objected to by the ${ t E}$	Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119		•					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment	• •	<i>.</i> .□	(770.440)					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Ll Interview Summary Paper No(s)/Mail Da						
3) 🔲 Infom	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date		atent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 15,16,22-26 rejected under 35 U.S.C. 103(a) as being unpatentable over Kuchi et al. in view of Sadri and further in view of Komatsu (U.S. Patent Publication 2001/0046873).

Regarding claims 15- 21, Kuchi discloses everything claimed, as applied above (see claims 1) additionally Kuchi discloses channel prediction terms (502a) from both first channel estimation terms (506a) derived from first common pilot channel signal (which reads on column 8 lines 66-67 and column 9 lines 1-15) and second channel estimation terms (506b) derived from second common pilot channel signal (which reads on paragraphs 0077); and enabling control over future transmission patterns of the channel using the channel prediction terms (which reads S1S2 and column 9 lines 1-15) and exhibited in figure 5. However, Kuchi fails to specifically discloses (a) enabling control over future transmission patterns of the channel using the channel prediction terms and (b) a communication interface; and a processor communicatively coupled to the communication interface (c) storage coupled to the processor to store the first and second channel estimation terms in order to determine the channel prediction terms in response to the first and second common pilot channel signals, respectively.

In the same field of endeavor, Sadri discloses a adaptive power control in wideband CDMA cellular systems and methods of operation. In addition Sadri discloses the use of a (a)

enabling control over future transmission patterns of the channel using the channel prediction terms (which reads on column 3 lines 58-67 and column 4 lines 1-17).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to improve Kuchi in view of prior art by modifying a non-zero complex weighted space-time code for multiple antenna transmission with the use of a enabling control over future transmission patterns of the channel using the channel prediction terms, as taught by Sadri for the purpose of saving on waste of transmit power.

In the same field of endeavor, Komatsu discloses a mobile terminal for transmission diversity CDMA communication system. In addition Komatsu discloses the use of a communication interface (9); and a processor (20) communicatively coupled to the communication interface (9), (which reads on paragraphs 0042), (c) storage (which reads on 19) coupled to the processor (20) to store the first (17) and second (18) channel estimation terms in order to determine the channel prediction terms in response to the first and second common pilot channel signals, respectively (which reads on paragraphs 0041-0043).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to improve Kuchi in view of prior art by modifying a non-zero complex weighted space-time code for multiple antenna transmission with the use of a communication interface, and a processor communicatively coupled to the communication interface, as taught by Komatsu for the purpose of saving on waste of transmit power.

Regarding claims 22-24, they disclose an apparatus corresponding to the method of claims 1-4. The apparatus is inherent in that it simply provides structure for the logical implementation found in claims 1-4.

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Regarding claims 25,26, Kuchi discloses in view of Sadri and further in view of Komatsu discloses all the claimed invention as set fourth in the instant application, in addition Kuchi et al. discloses provide feedback having the at least one weighted value of the one or more weighted values to the first and second antennas of the plurality of antennas (which reads on and column 9 lines 1-15).

Allowable Subject Matter

2. Claims 1-14,27-30 are allowed.

Response to Arguments

3. Applicant's arguments with respect to claims 1-30 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

2. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheila B. Smith whose telephone number is (571)272-7847. The examiner can normally be reached on Monday-Thursday 6:00 am - 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S. Smith 5. Someth May 1, 2006

SUPERVISORY PATENT EXAMINER